

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

400-001-1:

Cryogenics Laboratory Support

This activity provides support for research and development in low temperature physics and Astrophysics.

423-003-1:

ESDIS Outreach Support

To provide direct support to ESDIS Science Operations Office(SOO) and NASA's Science Mission Directorate in promoting NASA's contribution toward looking at the Earth as a set of interrelated systems.

To educate a broad range of Earth science data user and potential data user communities about available NASA resources.

To show the value of NASA's Science Mission Directorate, and the Sun-Earth Systems Division by promoting Sun-Earth science literacy.

423-004-1:

Hierarchical Data Format (HDF) Outreach

Facilitate the continued development of a mutually supporting community of HDF-EOS users through web pages, mailing lists and an annual conference.

Maintain expertise in the HDF and HDF-EOS standards and provide Internet resources and direct help to end users with the goal of broadening the community.

423-006-1:

ESDIS Network Prototyping Laboratory Support

Activities conducted under this task include systems administration functions in the lab and maintenance of the database used by the network performance monitoring system.

423-011-1:

Data Usability Tool Development

This task is aimed to develop data and metadata usability tools for the EOSDIS.

423-012-1:

ESDIS Science Processing Support Office

The general objectives of this task are to monitor and assess the performance of the DAACs (including maintaining relevant requirements, communications media, and survey mechanisms) and to support ESDIS personnel and supporting contractors.

423-017-1:

ESDIS UNIX/Security Support

Provide System Maintenance, upgrades and IT Security for the ESDIS Prototypes.

423-021-1:

ECHO and EDG Operations Support

Provide operations support for the EOS ClearingHouse (ECHO) system and system administration to support

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

operations for the EOS Data Gateway (EDG) system.

443-001-1:

JWST Wave Front Control Testbed

The work consists of maintaining necessary the testbed in a functional state supporting the OTE systems engineering team.

460-001-1:

STP Missions Publications Support

The contractor shall provide support for generation of various publications for STP missions including GEC, MMS, and MagCon.

460-002-1:

Sun Earth Connection Outreach Products Support

The contractor will provide the required services to develop and deliver graphics, CD ROMs and DVD ROMS, and videos to the Sun Earth Connection Program (LWS-Living with a Star and STP-Solar Terrestrial Probe Programs) for various missions.

470-001-1:

Earth Explorers Outreach Products Support

The contractor will provide the required services to develop and deliver graphics, CD ROMs, DVD ROMS and videos to the Earth Explorers program for various missions.

551-001-1:

Optics Branch Resource Analyst Support

This activity supports the Optics Branch in carrying out administrative and logistics tasks.

554-001-1:

Fabry-Perot Instrumentation Support

Provide technical support for the "Fabry-Perot for Measurement of Total Column Carbon Dioxide" instrument.

554-002-1:

Laser Diode Testing and Characterization Support

Support the testing, characterization and reliability assessment of laser diodes. Support the design and development of prototype laser systems.

588-004-1:

VOLT

The main objective of the Visual Observation Layout Tool (VOLT) project is to provide visual tools to help automate the planning of coordinated observations by multiple astronomical observatories.

588-005-1:

Operations Support

The objective of this task is to provide maintenance and operations support to the Advanced Architectures and Automation Branch (Code 588).

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

588-006-1:

Science Goal Monitor

Support the development of the Science Event Alert Communication System (SEACS) for the GSFC Mission Services Evolution Center (GMSEC) system.

588-007-1:

Goddard Mission Services Evolution Center (GMSEC) Support

The objective of this task is to provide task-level communications, tracking and documentation support for the GMSEC program.

588-008-1:

Computing, Information and Communications Technology (CICT) Support

The objective of this task is to design, implement, and enhance the workflow of Internet/Intranet applications that automate time- and event-driven management processes.

588-012-1:

Global Alert Resolution Network (GARNET)

The GARNET task will continue development of a distributed alert system.

588-014-1:

Web Browser Execution and Display of SAVANT Processing

The Science Algorithms Visualization And Networking Tool (SAVANT) is a

graphical tool for creating “visual programs” using web services.

591-001-1:

Mission Engineering Systems Analysis (MESA) Support

This work activity will fulfill the requirements for the Alternate-CSO full-time.

591-002-1:

Mission Engineering Systems Analysis (MESA) Logistic Support

Provide operations support for branch systems administration, Alternate-Safety Officer and Facility/Inventory Management functions.

592-001-1:

Advanced Engineering Environment Administration and Support

Provide system administration and administrative support to the Advanced Engineering Environment elements.

592-002-1:

System Administration and Documentation Support

The objectives of this task are to provide Systems maintenance, administration, and documentation support to the Mission Engineering and Systems Analysis Division, Code 590.

597-001-1:

Propulsion Support for SDO (Solar Dynamics Observatory)

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

This activity supports the Solar Dynamics Observatory (SDO) flight hardware development of the propulsion subsystem.

603-001-1:

NASA Academy Support

Coordinate academy and alumni activities, promote the NASA Academy program, and bolster participation of the members of the NASA Academy Alumni Association (NAAA).

612-001-1:

CCMC Systems and Network Support

Provide network administration; system administration support for peripheral, desktop and Beowulf clusters system; ensures adherence to Agency and Center security standards for the Community Coordinated Modeling Center (CCMC).

630-001-1:

Advanced RPI Data Analysis

The contractor shall provide orbit analysis, web updating, data analysis, and algorithm and software development support for the IMAGE project. Deliverables include software, documentation, presentations, and published science and technical papers (as lead or co-author). Software undergoes design, prototype, and revision phases.

660-003-1:

XTE Guest Observer Facility Support

Provide software, data handling, and other support as requested to the RXTE Guest Observer Facility.

660-004-1:

LHEA Technical Support

The Contractor shall be responsible for the systems management of the LHEA computing environment including hardware and software for computers and networks.

660-007-1:

Astro-E2 Processing

This task covers data handling for scientific instruments aboard the Astro-E2 spacecraft.

661-001-1:

InFOCuS Technical Support

This activity provides technical support for the International Focusing Optics Collaboration for uCrab Sensitivity (InFOCuS) Project.

661-002-1:

GLAST LAT Modeling

Perform advanced technology development for the GLAST spacecraft, including numerical simulations and the development of such software and graphics as are required to accomplish this.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

661-004-1:

Support for Astrophysics Publications and Presentations

The contract will provide writing and editing support, and other assistance with document production to the CGRO Project Scientist

661-005-1:

GLAST Science Support Center

The Contractor shall provide support for the development of the GLAST Science Support Center, including requirements analyses and software development for a variety of tasks related to GLAST operations.

661-010-1:

Swift-BAT S/W Development

This activity provides technical support for the SWIFT Mission and in particular, the Burst Alert Telescope (BAT).

662-002-1:

Swift Science Center Support

Support the Swift Science Center (SSC) with user software, website maintenance, and the Guest Investigator Program.

662-005-1:

Constellation-X Web Support

Assist with developing and maintaining the Constellation-X Web site, perform other duties to support Cox-X team meetings, and perform basic science support for mission planning.

663-001-1:

Code 660 Technical Support

This activity provides support for the design, construction, analysis, and troubleshooting of electrical/electronic systems.

664-001-1:

HEASARC Software Support

This work activity supports development and maintenance of HEASARC software designed for analyzing and transporting data from high energy astrophysics space missions. It also supports HEASARC representation at relevant conferences and meetings.

664-002-1:

Mission Specific Software Support

This work activity consists of development, testing, maintenance and support for mission-specific HEASARC data analysis software.

664-004-1:

XTE SOC S/W

This work activity supports operations and planning activities at the SOF level, and also includes coordination of efforts between the other SOC elements.

664-008-1:

Database and Web Support

This work activity provides support for HEASARC services and data archive,

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

and maintenance and development of the HEASARC database system.

682-001-1:

SDAC Visiting Scientist Support

Provide logistical support and assistance with travel expenses to scientists who travel to GSFC or other locations on business related to Solar Data Analysis Center (SDAC).

682-002-1:

SOHO EIT/LASCO & TRACE Support

This activity supports the Extreme Ultraviolet Imaging Telescope (EIT) and the Large Angle Spectrometric Coronagraph (LASCO) instruments aboard the Solar and Heliospheric Observatory (SOHO), as well as the TRACE/SMEX instrument.

682-003-1:

Solar Data Analysis Center

This activity supports the Solar Data Analysis Center (SDAC) in the archival and distribution of data from past, present, and future space solar physics missions.

682-004-1:

SOHO Science Operations and Logistics

This activity supports SOHO operations by coordinating science observations, monitoring data flow, scheduling interactive spacecraft activities, and providing logistics and other support.

682-006-1:

SOHO CDS/SUMER Support

This activity supports the Coronal Diagnostic Spectrometer (CDS) and the Solar Ultraviolet Measurements of Emitted Radiation (SUMER) instruments on the Solar and Heliospheric Observatory (SOHO).

682-007-1:

STEREO Science Center & COR1 Support

This activity supports the Solar Terrestrial Relations Observatory (STEREO) Science Center and the inner coronagraph (COR1) for the STEREO Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI) instrument.

682-008-1:

Living With a Star Program & SDO Support

This activity supports the Living With A Star (LWS) Program and associated activities within the Sun Earth Connection (SEC) science theme.

682-009-1:

STEREO/COR1 Support

Support development of STEREO Coronagraph (COR1).

685-001-1:

Code 685 IR Spectrometer Support

Provide support for the Micro-shutter flight development program for European Space Agency's (ESA) Near Infrared Spectrometer (NIRSpec)

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

instrument to be flown on the James Webb Space Telescope (JWST).

Provide software and system management support for the Cassini CAPS Investigation.

690-001-1:

Rocket-Flight Data Support

The contractor will provide support for analysis of data from NASA rocket and suborbital investigations.

692-002-1:

Magnetometer Data Processing

Provide software, data, and systems administration support for magnetometer experiments.

690-004-1:

LEP Property Database Support

Will provide tracking of all equipment assigned to personnel in codes 690.0 through 696.0.

693-004-1:

Mars Global Surveyor Thermal Emission Spectrometer Support

This task provides support for the Arizona State University (ASU) MGS/TES instrument for the extended mission.

690-005-1:

LEP Systems and Network Support

Provides network administration, and peripheral and desktop system administration support and ensures adherence to Agency and Center security standards for the Laboratory for Extraterrestrial Physics.

693-006-1:

Planetary Atmospheres Modeling

Provide support for developing radiative transfer models for planetary atmospheres.

690-006-1:

GSFC Astrobiology Center Education and Public Outreach

Perform EPO activities to bring astrobiology to middle and high school as well as college students and teachers, and the general public.

693-007-1:

Cassini CIRS

Support the Cassini Science Team with planning, analysis, and data handling activities for the Composite Infrared Spectrometer (CIRS).

692-001-1:

Cassini/CAPS Software Engineering Support

693-008-1:

Mars Radiative Transfer Studies

This work activity will support the development of a radiative transfer program to compute the observed radiance from Mars.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

695-001-1:

Ulysses URAP Support

This activity provides computer support and data handling for the Unified Radio and Plasma Wave (URAP) instrument on the Ulysses spacecraft.

695-003-1:

Geotail Data Support

This WAP provides database maintenance and technical support for the GEOTAIL satellite.

695-004-1:

Planetary Missions Support

Provide scientific, computer, and administrative support to the Planetary Magnetospheres Branch of the LEP.

695-007-1:

Stereo Waves Support

Provide programming support, including requirements analysis, design, implementation, test, and maintenance for software to support the development and eventual deployment of the Stereo/WAVES experiment on board the STEREO mission.

696-001-1:

Electric Fields Instrument Support

This activity provides support for Code 696 electronics utilized on sounding rockets and spacecraft.

696-002-1:

Electric Fields Science Support

This task supports the handling of data bearing on electric fields in the Earth's upper atmosphere.

696-005-1:

Heliospheric Studies

Provide data analysis support for studies of heliospheric structures using data from the IMP-8 and WIND spacecraft.

696-007-1:

Polar Operations

Provide support to the Polar spacecraft the Polar Science Data Processing System.

696-008-1:

Cluster and Messenger Data Processing Support

This activity supports the development, maintenance, and execution of data processing and scientific graphics software used in the study of observations from the Cluster and Messenger spacecraft and related phenomena.

This activity also supports these studies by aiding in the production of materials for publication and presentations.

900-002-1:

EOS Project Science Office Support

This Activity provides logistical and scientific support for the Earth Observing System (EOS) Project Science Office.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

900-003-1:

MODIS Atmospheres Product Support

Provide support for the maintenance of MODIS Joint Atmospheres product (MOD08) software and web sites related to Code 900 activities.

900-009-1:

Special NASA HQ Requests Activities

Support activities associated with all aspects of special NASA HQ presentations and other requests.

900-010-1:

Earth System Science Education Activities

Provide support to Goddard's Earth Sciences Directorate Office education activities.

900-012-1:

Earth Science Enterprise Story Development Team

The NASA Earth Science News & Information Team has responsibility for promoting newsworthy EOS and other NASA-funded Earth science research through the news media.

900-014-1:

NASA HQ Graphics Support

Provide design, development, and reproduction services for NASA's Earth Science Enterprise (ESE) public outreach (Code Y/YO) materials.

Produce posters, brochures, and other materials to advance the mission of the Earth Science Enterprise.

900-015-1:

MODIS Snow/Sea Ice Project Support

Support handling of data from spaceborne sensors with emphasis on the EOS MODIS instrument, principally in the area of snow and sea ice applications.

900-016-1:

Animated Earth Project

Promote Earth System Science discoveries in a visually appealing, dynamic, frequently updateable, and affordable way for public display in museums or other informal education venues.

900-017-1:

MODIS Surface Albedo and Atmospheric Correction Analysis

Develop, maintain, and support the MODIS cloud retrieval code used in processing MODIS data from the Terra and Aqua spacecraft. Support visualization tools and ancillary packages to enhance the physical retrieval of cloud optical properties.

900-018-1:

HQ NASA SMD Conference Support

Provide conference support for NASA Headquarters' Science Mission Directorate.

902-001-1:

GES DAAC Science Data Support

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

Provide science support for data products produced and/or archived at the Goddard Earth Sciences Distributed Active Archive Center (GES DAAC), external data producers, and research and other users of GES DAAC data.

902-002-1:

GES DAAC Operations Support

Provide operations support for the Earth Science data handling at the Goddard Earth Sciences (GES) Distributed Active Archive Center (DAAC).

902-003-1:

Global Change Master Directory

Provide dataset and related Earth Science services metadata and make available to scientists, students, educators, and policy makers through an online search and retrieval system.

902-004-1:

International and Interagency Support Task

Support the Committee on Earth Observation (CEOS) International Directory Network (IDN) and Federal interagency climate change activities.

902-005-1:

GES DAAC Systems & S/W Engineering

The contractor will provide systems engineering, systems and database administration, and related support for the GES DAAC operational systems.

902-006-1:

GES DAAC EOS Mission Science Support

Provide EOS Mission Support for the Earth Science missions, data sets, and data products supported by the GSFC Earth Sciences (GES) Distributed Active Archive Center (DAAC).

902-010-1:

WHOM Development

The contractor will provide support for the Web Hierarchical Ordering Mechanism (WHOM), which provides information on data holdings of the GSFC DAAC.

902-011-1:

Application of Bayesian Classification to Data Management

The contractor will support a Mission Focus technology infusion project applying Bayesian classification to Data Management.

902-012-1:

GES DAAC Personal Computer Support

Provide hardware, software, and data backup/restore support and for the DAAC Personal Computers and small desktop systems.

902-013-1:

GES DAAC Web Development

The contractor will provide support for the GES DISC website development and maintenance.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

902-014-1:

GES DAAC Security Support

Provide systems security support for the development, testing, and operational systems at the GES DAAC.

902-015-1:

Environment and Health

The contractor will provide programming and analysis support in using remotely sensed data for public health related research and development.

902-016-1:

Agriculture REASoN CAN Support

Provide SEEDS (Strategic Evolution of ESE Data Systems)-related, operational solutions to USDA Foreign Agricultural Service (FAS) and UN World Food Program (WFP).

902-017-1:

SEEDS Website Maintenance

The contractor will provide support for the Earth Science Data System Working Group's website, formerly known as the Strategic Evolution of ESE Data Systems (SEEDS), and for the Research, Education, and Applications Solutions Network (REASoN) website.

This activity will maintain and enhance the information pages that describe the on-going work in support of overcoming the Earth Science Enterprise data system challenges.

902-018-1:

Oceans REASoN CAN Support

For the overall project, including the DAAC component:

Develop and maintain a seamless ocean color time series from 1978 to 2008 and develop a single ocean color access portal.

902-019-1:

Giovanni

Continue development, enhancement, maintenance and deployment of Giovanni (GES-DISC Interactive Online Visualization and Analysis Infrastructure) to provide and support user interfaces and tools which enable interactive science data analysis of multi-mission data.

902-020-1:

Atmospheric Composition Data and Information Services Center Development

Develop a web-based Data and Information Services Center to serve the needs of the atmospheric composition scientific community.

902-021-1:

S4PM - ViP

Continue the design, implementation, integration, test and deployment of Simple, Scalable, Script-based Science Processor for Missions - Virtual Processing (S4PM-ViP), a distributed virtual product system for on-demand

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

processing from Level 0 data, and for product generation and distribution.

910-002-1:

OMI Cloud Support

This work activity supports US OMI Science Team member Dr. Joanna Joiner in the development and implementation of operational algorithms for the determination of cloud height from the OMI instrument.

915-001-1:

Mass Spectrometer Instrument Development Support

SSAI shall provide support to build mass spectrometers and related instruments, and post-launch support for mass spectrometer missions.

915-002-1:

Software Development for INMS, GCMS, NMS and NGIMS

The contractor shall provide software development/maintenance support for spaceflight and ground support software for flight mass spectrometers including the Cassini Ion and Neutral Mass Spectrometer (INMS), the Cassini Huygens Probe Gas Chromatograph Mass Spectrometer (GCMS), the Nozomi Neutral Mass Spectrometer (NMS), the CONTOUR Neutral Gas and Ion Mass Spectrometer (NGIMS).

916-001-1:

Solar Backscatter Ultraviolet (SBUV)

This task will provide algorithm development, calibration analysis, and software support to the SBUV instruments flying on NASA and NOAA satellites.

916-003-1:

OMI Software and Science Support Team

This task supports U.S. Government scientists in preparing and implementing algorithms for remote sensing instrument data processing.

916-005-1:

TOMS Software and buv Processing Support

This work activity supports processing of ozone and other buv-derived data products for the TOMS and the SBUV series of instruments.

916-007-1:

Aura E&PO

The goal of the program is to educate students and the public and to inform industry and policy makers about how the Aura mission will lead to a better understanding of the global environment.

916-009-1:

SVIP Support

This work activity provides engineering support to remote sensing instrument development.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

916-010-1:

NPP Support

This work activity provides modeling and data analysis support and the development and use of software in preparation for sensors that will be flown on the NPOESS Preparatory Project (NPP) satellite.

916-011-1:

AVDC Support

This Work Activity (WA) supports the development and maintenance of the Aura Validation Data Center (AVDC).

916-013-1:

UV Surface Radiation Support

This work activity supports modeling and analysis of the ultraviolet (UV) radiation fields near surface structures.

920-001-1:

Technical Support for Remote Sensing Modeling, Data Analysis and Field Work

Provide technical and programming support for remote sensing modeling and data analysis research.

920-002-1:

Logistical Support for Remote Sensing Modeling, Data Analysis and Field Work

Provide logistical support and assistance with travel expenses to scientists/technologists who travel to GSFC or other locations on business related to

Code 920 Remote Sensing Modeling, Data Analysis and Field Work.

922-001-1:

OMI SIPS Development and Operations

This work activity supports the development, operations, and other support for general data processing of remotely sensed data.

922-002-1:

Prototype End-User Data Systems

Provide systems engineering and algorithm/software development to support the design, implementation, verification, and maintenance of new "light-weight" end user data systems for value-added processing and distribution of measurements obtained from EOS missions.

922-004-1:

Value Added Products from Vegetation and Precipitation Time-Series Data Sets in Support of Invasive

Support the better use of EOS satellite data and meteorological data within the Invasive Species Forecasting System.

922-005-1:

MODIS Land Validation Logistical Support

Provide logistical support and assistance with travel arrangements and expenses for scientists.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

923-006-1:

MODLAND Validation Support

The MODLAND validation support staff will help organize and coordinate activities to validate MODLAND data products.

923-007-1:

LBA-Ecology Support

This work activity provides primarily for Brazil in-country field experiment implementation assistance to the Large-Scale Biosphere-Atmosphere study in Amazonia and the LBA-Ecology Project Office.

923-008-1:

LBA-Ecology Project Office Support

The contractor shall provide LBA-Ecology Project Office support including administration, outreach, infrastructure and logistics support.

923-009-1:

GIMMS Support

Support the science data production and analysis activities of the Global Inventory Monitoring and Modeling Studies (GIMMS) group.

923-013-1:

Support for the ESSP Project Science Office

This Work Activity supports research carried out for two ESE sponsored research projects and programmatic support for the Earth System Science Pathfinder (ESSP) Project Scientist.

923-014-1:

LBA Ecology - Land Cover #23

Provide logistical support and assistance with travel arrangements and expenses to scientists/technologists who travel to/from GSFC area in support of LBA Ecology "Land Cover #23" project activities.

930-001-1:

Scientific Visualization Studio Support

The objective of this task is to develop visualization systems, tools, and visual source materials in support of NASA's science research and outreach efforts.

930-005-1:

ESDCD Visiting Scientist/Technologist Support

Provide logistical support and assistance with travel expenses (airfare, per diem, car rental costs, miscellaneous expenses) to scientists/technologists who travel to GSFC or other locations on business related to the Earth and Space Data Computing Division.

930-006-1:

Logistics Support for Invasive Species Studies

Provide logistical support and assistance with travel expenses to scientists/technologists who travel to GSFC or other locations on business related to the Invasive Species Forecasting System and bioinformatics research.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

930-007-1:

Technical Support for Invasive Species Studies

Support the NASA GSFC biotic prediction project by providing systems engineering and programming support for the Invasive Species Forecasting System and bioinformatics research.

930-008-1:

High Performance Computing Visualization Support

This task is concerned with support for the cutting-edge visualization requirements of the users of the high-performance computing facilities and services of the Earth and Space Data Computing Division.

933-001-1:

Outreach and Technical Resource

Develop and maintain the web site to present Earth and Space Data Computing Division (ESDCD) capabilities and projects. Provide content for the web site and support for publications and reports.

934-001-1:

CT Outreach Support

This work activity documents and reports the scientific and technical accomplishments of the Earth Science Technology Office's Computational Technologies (CT) Project.

934-002-1:

TRL Systems Support

Provide web site and Internet broadcasting support.

935-001-1:

Voyager Software and Data Analysis

This work activity provides support for the handling of cosmic ray data from the Voyager CRS and IMP-8 GME.

935-002-1:

ESE Hyperspectral Applications System Studies

The purpose of this work activity is to investigate the use of aircraft based hyper-spectral measurements to support local and regional Earth Science Enterprise (ESE) application initiatives.

935-003-1:

Direct Readout Data Systems Design and Development

Provide software support for the NPP In-Situ Ground System (NISGS)

971-001-1:

Sea Ice and Climate Studies

Provide programming expertise to address the requirements of the Sea Ice/Climate Studies task.

971-002-1:

Polar Air-Sea-Ice Processes

Support the development and validation of sea ice algorithms for satellite based microwave data.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

971-003-1:

Remote Sensing Studies of Sea Ice

Provide programming and analysis support to meet objectives for several Earth Science Enterprise projects.

The major objective is to validate the AQUA-AMSR sea ice products and to use these results to ascertain any trends and anomalies in the polar sea ice processes.

971-004-1:

Physical Oceanography Model Support

This activity provides support to run oceanographic models.

971-005-1:

MODIS Snow Project Support

Support the development of snow and sea ice products for the EOS Moderate Resolution Imaging Spectroradiometer (MODIS).

974-002-1:

Coupled Land-Atmosphere System Studies

Perform scientific analysis to improve the understanding and prediction of mesoscale land-surface energy and moisture fluxes.

974-004-1:

Multifrequency Radar System Field Experiment Support

Provide specialized technical support during the design, modification,

fabrication, and testing of a new truck-based combined radar-radiometer instrument system.

974-005-1:

Hydrologic Modeling Project Support

The objective of this work is to further develop and apply the GSFC Code 974 hydrologic model.

974-007-1:

NASA Products for Water Management Applications

Primary objective is to test NASA products in selected federal agency decision support tools for the purpose of improving results.

974-008-1:

Microwave Soil Moisture Assessment and Data Processing

This Work Activity supports scientists in the Hydrological Sciences Branch of the Laboratory for Hydrospheric Processes for microwave data processing and model assessment.

975-001-1:

STAR Radiometers and Remote Sensing Research

Reduction and analysis of ESTAR and 2D-STAR data in support of remote sensing research objectives.

975-002-1:

Radar Design and Data Analysis

The contractor will evaluate methods for using a spaceborne radar to measure rain intensities.

ATTACHMENT B
Sciences and Exploration Data Analysis
SESDA-II/SOW Addendum
NNG06EB68C

975-003-1:

AMSR-E Sea Ice and Snow on Sea Ice

Support

Support EOS Aqua AMSR-E sea ice product validation and modification efforts, as well as contribute to the utilization of passive microwave sea ice and snow data sets for studies of polar region processes.